Val Lys Val Leu Leu Asp Asn Glu Thr Leu Lys Val Pro Lys Ile Pro 210 215 220

Ser Glu Thr Asp Ala Glu Asn Xaa Lys Lys Lys Lys Val Leu Lys Val 225 230 235 240

Xaa Asn Ala Tyr Asp Leu His Leu His Val Pro Lys Gly Leu Arg Leu 245 250 255

Lys Thr Ala Arg Ala Leu Gly Ser Leu Trp Arg Ala 260 265

## (2) INFORMATION FOR SEQ ID NO:764:

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- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 170 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (iii) HYPOTHETICAL: YES
- (V1) ORIGINAL SOURCE:
  - (A) ORGANISM: Helicobacter pylori
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:

Mer Glu Xaa Xaa Lys Lys Phe Val Ala Leu Gly Leu Leu Ser Ala Val 1 5 10 15

Leu Ser Ser Leu Leu Ala Glu Gly Asp Gly Val Tyr Ile Gly Thr
20 25 30

Asn Tyr Gln Leu Gly Gln Ala Arg Leu Asn Ser Asn Ile Tyr Asn Thr 35 40 45

Gly Asp Cys Thr Gly Ser Val Val Gly Cys Pro Pro Gly Leu Thr Ala
50 55 60

Asn Lys His Asn Pro Gly Gly Thr Asn Ile Asn Trp His Ser Lys Tyr

Ala Asn Gly Ala Leu Asn Gly Phe Gly Leu Asn Val Gly Tyr Lys Lys 85 90 95

Phe Phe Gln Phe Lys Ser Leu Asp Met Thr Ser Lys Trp Phe Gly Phe 100 105 110

Arg Val Tyr Gly Leu Phe Asp Tyr Gly His Ala Asp Leu Gly Lys Gln 115 120 125

Val Tyr Ala Pro Asn Lys Ile Gln Leu Asp Met Val Ser Trp Gly Val

Gly Ser Xaa Leu Leu Ala Asp Ile Ile Asp Xaa Arg Gln Arg Phe Phe 145 150 155 160

Trp Tyr Phe Trp Trp Gly Arg Tyr Arg Arg 165 170

## (2) INFORMATION FOR SEQ ID NO:765:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 133 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (111) HYPOTHETICAL: YES
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Helicobacter pylori
- (x1) SEQUENCE DESCRIPTION: SEQ ID NO:765:

Met Asn Tyr Asp Asn Tyr Trp Asp Glu Asp Lys Pro Glu Leu Asn Ile 1 5 10 15

Thr Pro Leu Val Asp Val Met Leu Val Leu Leu Ala Ile Leu Met Val
20 25 30

Thr Thr Pro Thr Leu Thr Tyr Lys Glu Glu Ile Ala Leu Pro Ser Gly 35 40

Ser Lys Thr Ala Arg Ala Thr Gln Asp Lys Val Ile Glu Ile Arg Met 50 55 60

Asp Lys Asp Ala Lys Ile Tyr Ile Asp Ser Gln Thr Tyr Glu Tyr Xaa 65 70 75 80

Ser Phe Pro Asp Thr Phe Asn Leu Leu Ser Lys Lys Tyr Asp Lys Asp 85 90 95

Thr Arg Val Ser Ile Arg Ala Asp Lys Arg Leu Thr Tyr Asp Lys Val

Ile Tyr Leu Leu Lys Thr Ile Lys Glu Ala Gly Phe Leu Lys Val Ser 115 120 125

Leu Ile Thr Ser Pro 130

## (2) INFORMATION FOR SEQ ID NO:766:

- (1) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 71 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (11) MOLECULE TYPE: protein

(2) INFORMATION FOR SEQ ID NO:38080063\_c2\_9: -AA

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- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 147 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (iii) HYPOTHETICAL: YES
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Helicobacter pylori
- (xi) SEQUENCE DESCRIPTION: major outer membrane protein

Met Glu Ile Ile Lys Lys Phe Val Ala Leu Gly Leu Leu Ser Ala Val 1 5 10 15

Leu Ser Ser Ser Leu Leu Ala Glu Gly Asp Gly Val Tyr Ile Gly Thr 20 25 30

Asn Tyr Gln Leu Gly Gln Ala Arg Leu Asn Ser Asn Ile Tyr Asn Thr 35 40 45

Gly Asp Cys Thr Gly Ser Val Val Gly Cys Pro Pro Gly Leu Thr Ala 50 55 60

Asn Lys His Asn Pro Gly Gly Thr Asn Ile Asn Trp His Ser Lys Tyr 65 70 75 80

Ala Asn Gly Ala Leu Asn Gly Phe Gly Leu Asn Val Gly Tyr Lys Lys
85 90 95

Phe Phe Gln Phe Lys Ser Leu Asp Met Thr Ser Lys Trp Phe Gly Phe 100 105 110

Arg Val Tyr Gly Leu Phe Asp Tyr Gly His Ala Asp Leu Gly Lys Gln
115 120 125

Val Tyr Ala Pro Asn Lys Ile Gln Leu Asp Met Val Ser Trp Gly Val 130 135 140

Gly Ser Ile Cys 145